ABSTRACT

The invention relates to the recognition of digital finger prints, more particularly to recognition by an elongate bar of sensors able to detect crests and valleys of finger prints when a finger is passed in a relative manner in front of a sensor in an essentially parallel manner in relation to the direction of elongation of said bar. The inventive method comprises the following operations: successive partially overlapping images are acquired under the control of a processor; displacement of the first image in relation to a second image is examined in order to provide a better correlation between the two images; said displacement component is determined in terms of pixels in a perpendicular direction with respect to the elongate sensor; the displacement component is compared to at least one threshold; according to the result of the comparison, a delay T imposed by the processor before the acquisition of a following image is preserved, or increased or decreased by a time increment dT. As a result, the correlation search is adapted according to the speed, which is unknown, of displacement of the finger.